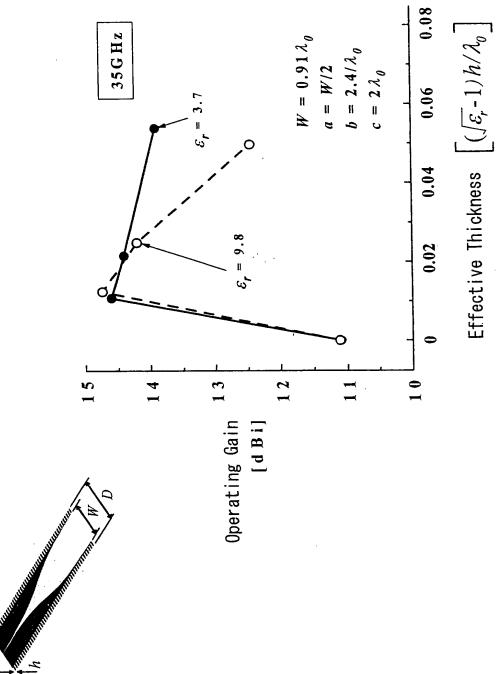


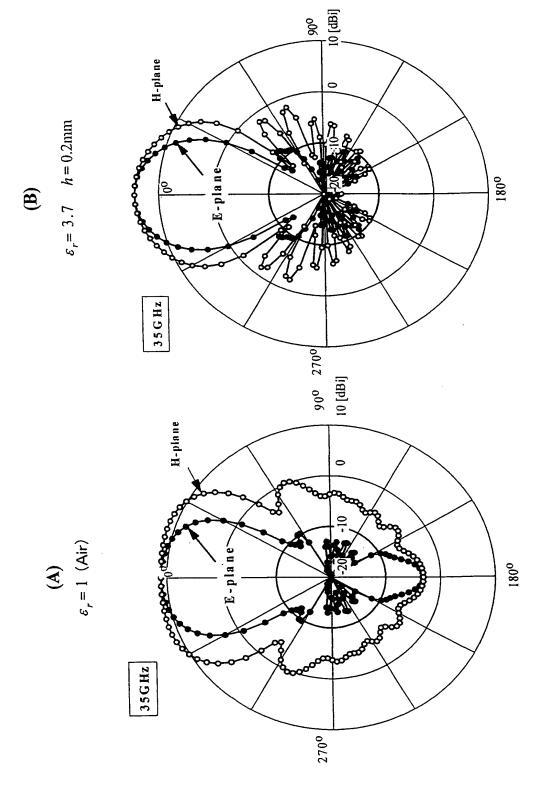
$$\varepsilon_{r} = 3.7$$

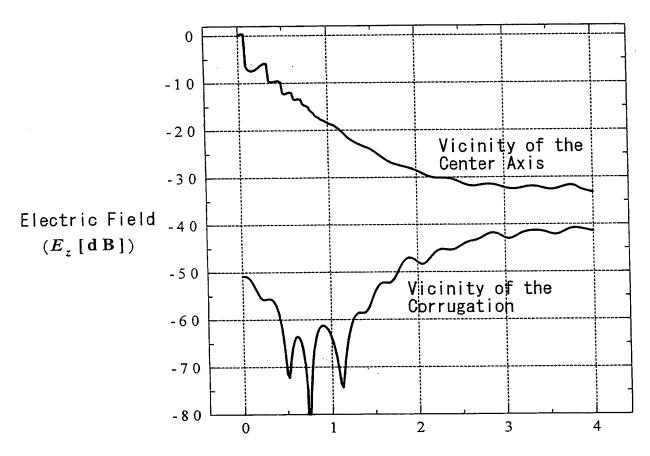
 $\varepsilon_{r} = 9.8$

$$h = 0.1, 0.2, 0.5 \text{mm}$$

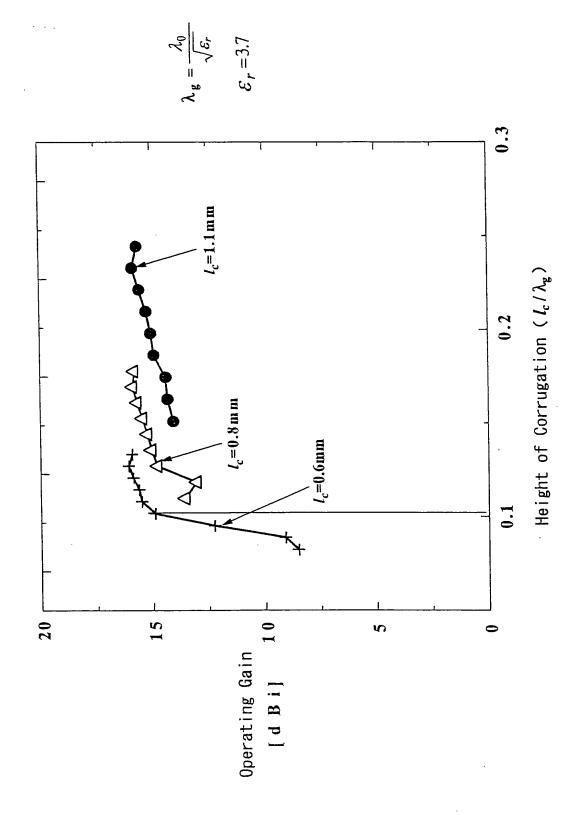
$$h = 0.05, 0.1, 0.2$$
mm

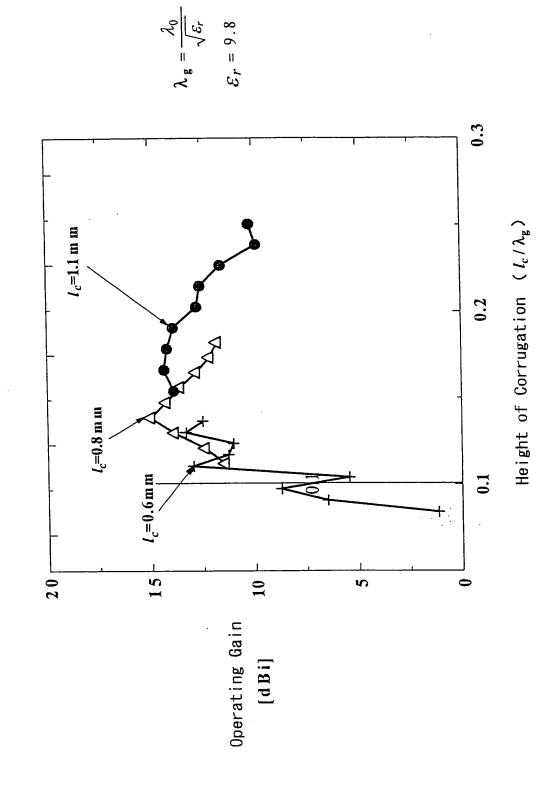


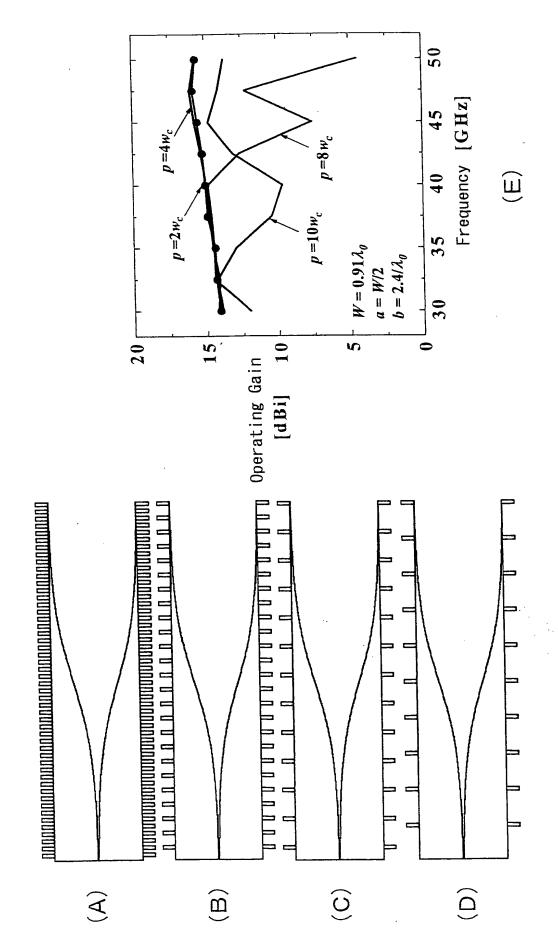


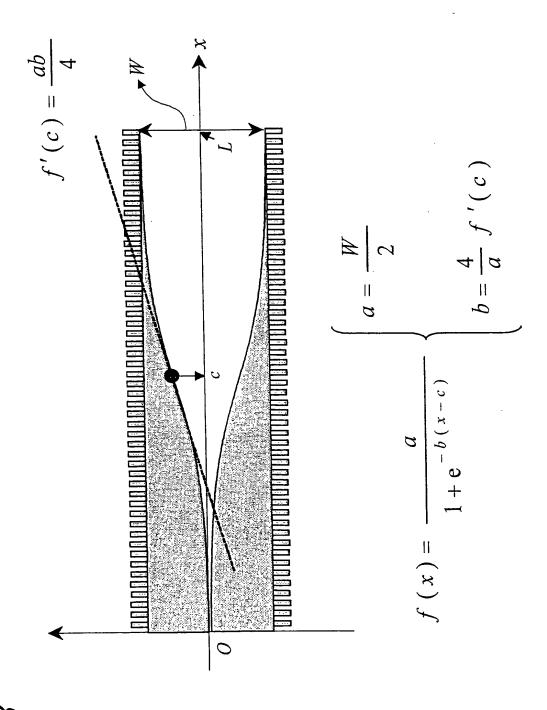


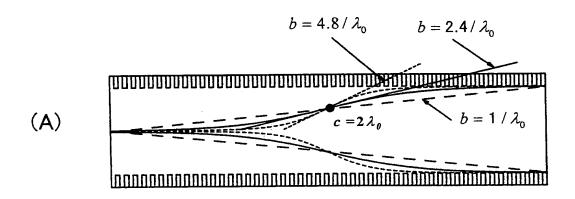
Length of Antenna (L/λ)

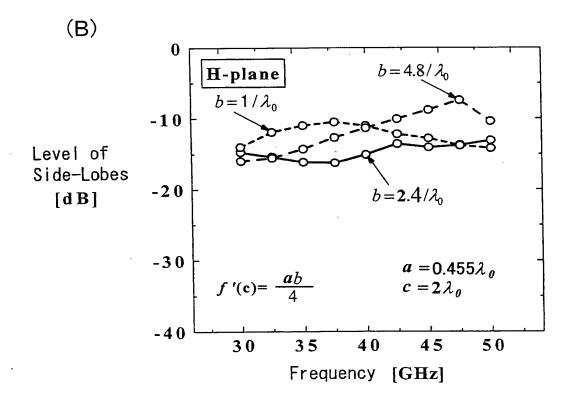


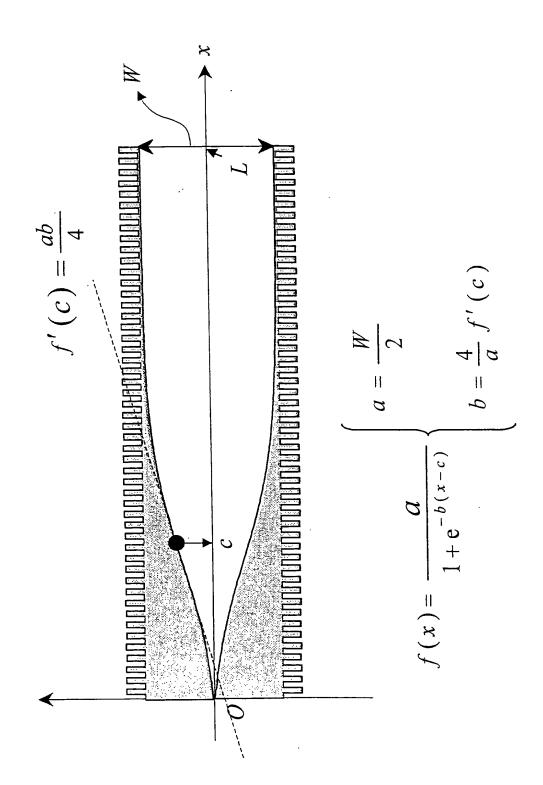


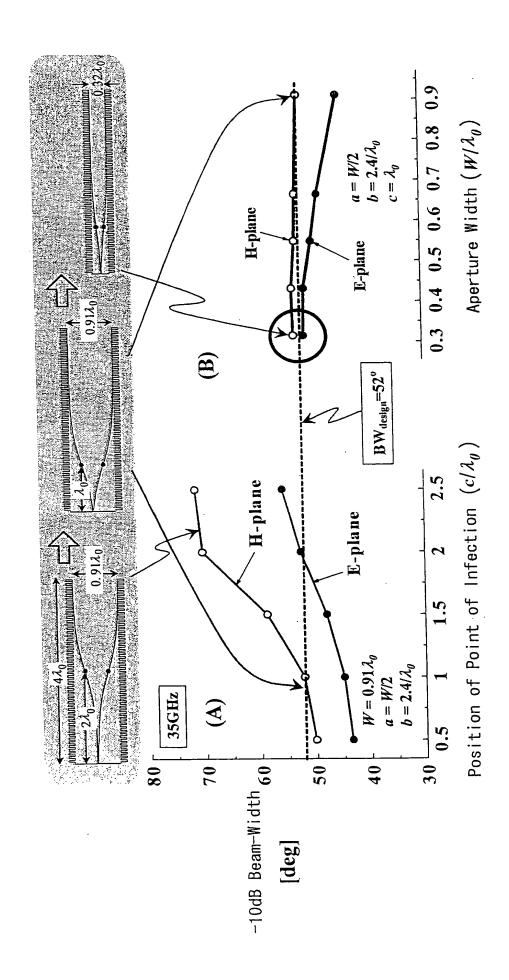


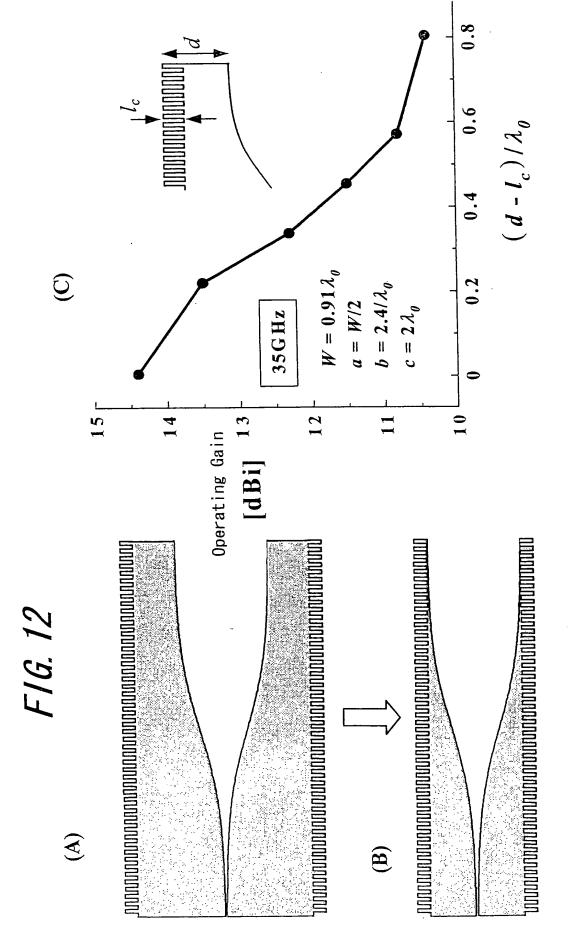




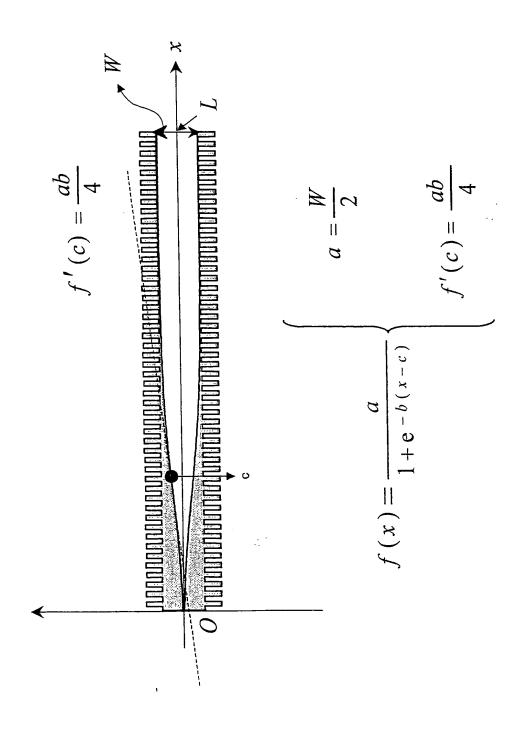


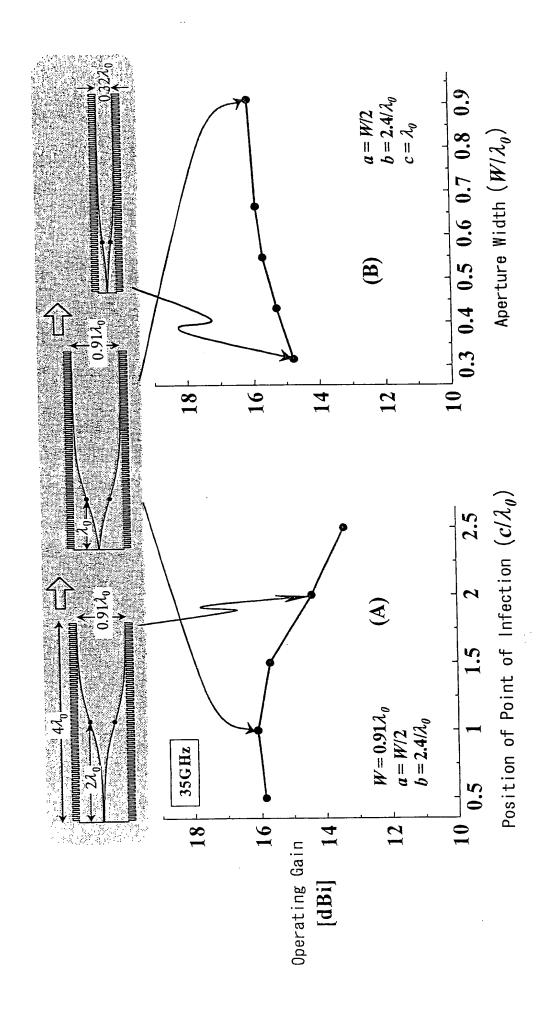


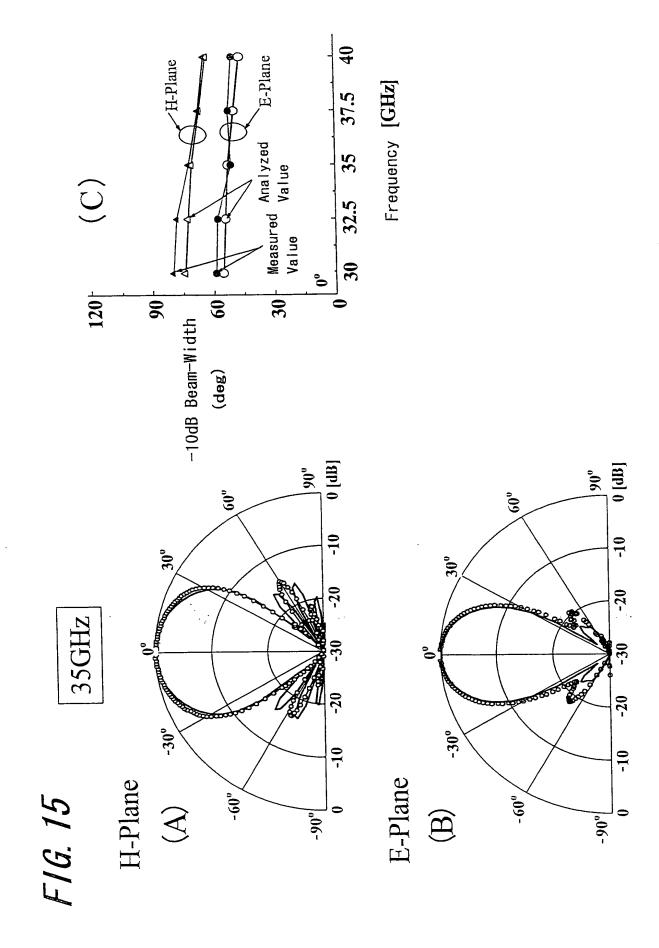


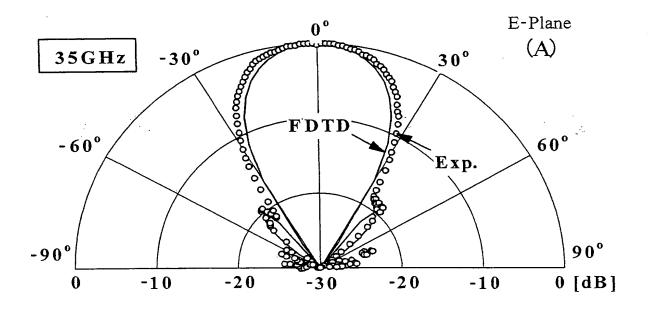


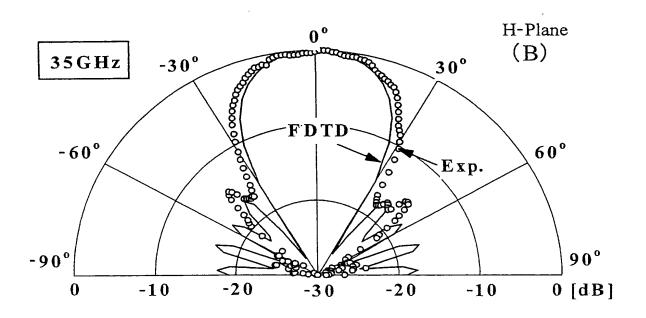
Condition That Gives High Gain $d = l_{\mathcal{C}}$

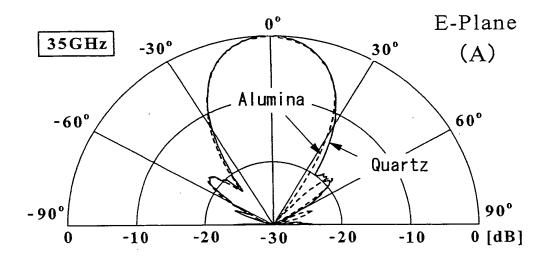


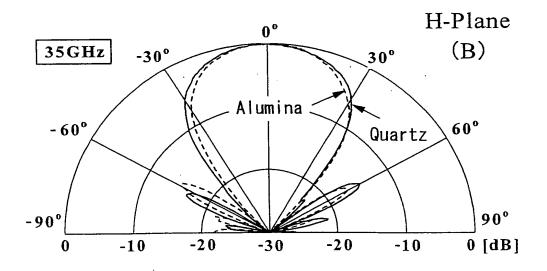


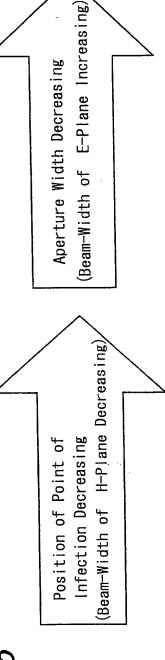


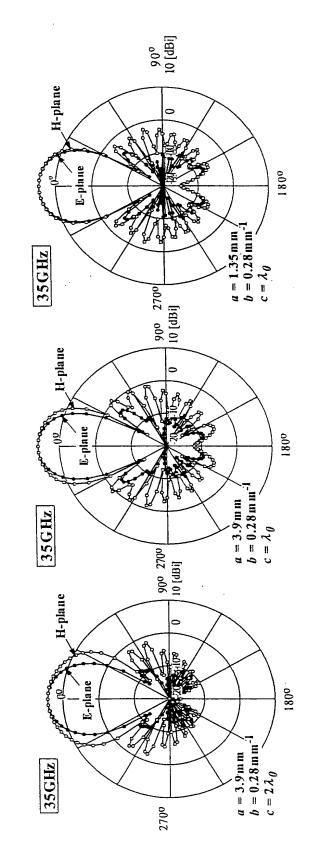












Operating Gain 14.8 dBi Side-Lobes Level of E-Plane -20.2 dB Side-Lobes Level of H-Plane -16.8 dB

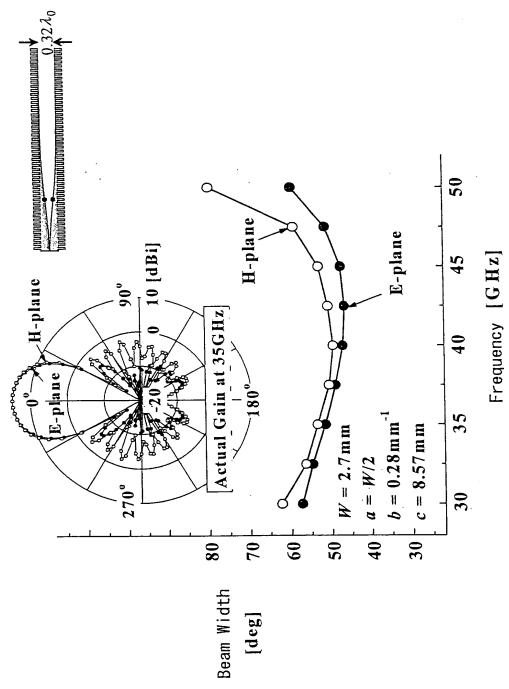
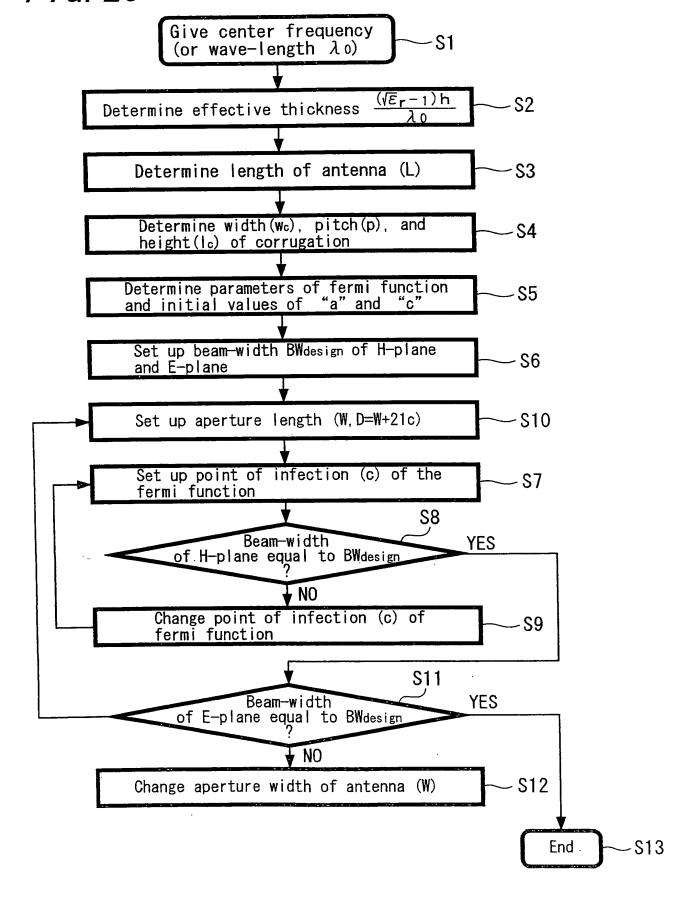
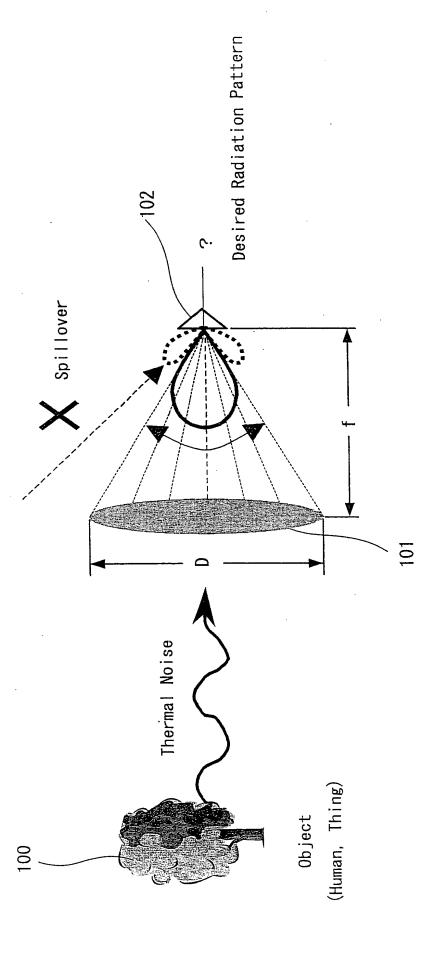


FIG. 20



F16. 21



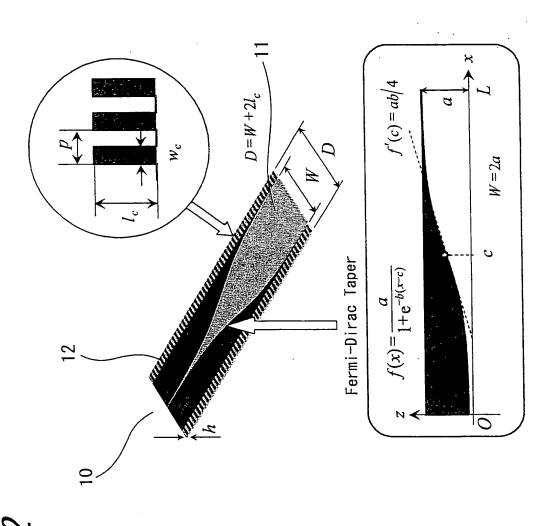


FIG. 23

Name of Measures	[mm]	[λ ₀]@35GHz
Length of Antenna $oldsymbol{L}$	34.28	4
Aperture Width W	7.8	0.91
Distance d Between End of Substrate And End of Aperture d	1.15	0.13
Substrate Width D	10.1	1.18
Substrate Thickness h	0.2	0.02
Corrugation Length <i>lc</i>	1.1	0.13
Corrugation Width Wc	0.3428	0.04
Corrugation Pitch P	0.6856	0.08
Slot Line Width \(\mathfrak{W}_{S} \)	0.1	0.01